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Group Art Unit 1646

Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Utility Patent Application
Appl. No. 10/024,494; Filed: December 21, 2001
For: **Human G-Protein Coupled Receptors**
Inventors: Li *et al.*
Our Ref: 1488.1140008/EKS/MBT

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 (19 sheets citing 66 documents);
3. 66 documents attached cited in Form PTO-1449; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
June 7, 2002
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The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Eric K. Steffe
Attorney for Applicants
Registration No. 36,688

EKS/MBT/lam
Enclosures

SKGF_DC1:12587.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Li et al.

Appl. No. 10/024,494

Filed: December 21, 2001

For: **Human G-Protein Coupled
Receptors**

Confirmation No. 4174

Art Unit: 1646

Examiner: *To be assigned*

Atty. Docket: 1488.1140008/EKS/MBT

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Information Disclosure Statement JUN 11 2002

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Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Applicants wish to bring to the attention of the Examiner that SEQ ID NO:1 and the corresponding cDNA clone of this application are related to SEQ ID NO:23923 in copending U.S. Patent Application Serial No. 09/912,292. Further, SEQ ID NO:3 of this application is related to SEQ ID NOS:18045, 29215, and 46980 in copending U.S. Patent Application Serial No. 09/912,292. Moreover, SEQ ID NO:5 of this application is related to SEQ ID NO:29004 in copending U.S. Patent Application Serial No. 09/912,292. A legible copy of those portions of U.S. Patent Application Serial No. 09/912,292 which caused it to be listed on the attached revised form PTO-1449 is submitted herewith as reference AS19.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Eric K. Steffe
Attorney for Applicants
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Date: 6/7/02

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.1140008APPLICATION NO.
10/024,494APPLICANT
LI et al.FILING DATE
December 21, 2001GROUP
1646

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1	5,053,337	10/01/1991	Weinshank et al.	435	240.2	10/30/1989
	AB1	5,194,596	03/16/1993	Tischer et al.	530	399	12/14/1989
	AC1	5,155,218	10/13/1992	Weinshank et al.	536	27	05/08/1990
	AD1	5,284,755	02/08/1994	Gearing et al.	435	69.1	09/11/1992
	AE1	5,814,605	09/29/1998	Pierce et al.	514	12	06/06/1995
	AF1	5,824,643	10/20/1998	Pierce et al.	514	12	06/07/1995
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL1	WO 92/01810	02/06/1992	WIPO		Yes No
	AM1	WO 93/07294	04/15/1993	WIPO		Yes No
	AN1	WO 94/05695	03/17/1994	WIPO		Yes No
	AO1	WO 94/12635	06/09/1994	WIPO		Yes No
	AP1	WO 96/30406	10/03/1996	WIPO		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	Alberts, B. et al., "A Large Family of Homologous, Seven-Pass Transmembrane Glycoproteins Activate G Proteins," in Chapter 12 of <i>Molecular Biology of the Cell</i> , 2 nd ed., Alberts, B. et al., Eds., Garland Publishing, Inc., New York, NY., pp. 705-706 (1989).
AS	1	Amlaiky, N. et al., "Isolation of a Mouse '5HT1E-like' Serotonin Receptor Expressed Predominantly in Hippocampus," <i>J. Biol. Chem.</i> 267:19761-19764, The American Society for Biochemistry and Molecular Biology, Inc. (1992).
AT	1	Burbach, J.P.H. and Meijer, O.C., "The structure of neuropeptide receptors," <i>Eur. J. Pharmacol.</i> 227:1-18, Elsevier Science Publishers B.V. (1992).

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	AL					Yes No
	AM					Yes No
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	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Burnstock, G., "P2 purinoceptors: historical perspective and classification," <i>Ciba Found. Symp.</i> 198:1-34, The Novartis Foundation (July 1996).
AS	2	Chakraborti, T. et al., "Complement activation in heart diseases: Role of oxidants," <i>Cell. Signal.</i> 12:607-617, Elsevier Science Ltd. (October 2000).
AT	2	Faà, V. et al., "Mutations in the vasopressin V2-receptor gene in three families of Italian descent with nephrogenic diabetes insipidus," <i>Hum. Mol. Genet.</i> 3:1685-1686, Oxford University Press (September 1994).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	3	Foguet, M. et al., "Cloning and functional characterization of the rat stomach fundus serotonin receptor," <i>EMBO J.</i> 11:3481-3487, Oxford University Press (1992).
AS	3	Fox, K.A.A., "Thrombolysis: Adjuvant therapy and the role of complement," <i>Eur. Heart J.</i> 11(Suppl F.):36-42, The European Society of Cardiology (1990).
AT	3	George, D.G. et al., "Current Methods in Sequence Comparison and Analysis," in <i>Macromolecular Sequencing and Synthesis. Selected Methods and Applications</i> , D.H. Schlesinger, Ed., Alan R. Liss, Inc., New York, NY, pages 127-149 (1988).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	4	Hla, T. and T. Maciag, "An Abundant Transcript Induced in Differentiating Human Endothelial Cells Encodes a Polypeptide with Structural Similarities to G-protein-coupled Receptors," <i>J. Biol. Chem.</i> 265:9308-9313, The American Society for Biochemistry and Molecular Biology, Inc. (1990).
AS	4	Iwai, N. and T. Inagami, "Identification of two subtypes in the rat type I angiotensin II receptor," <i>FEBS Lett.</i> 298:257-260, Elsevier Science Publishers B.V. (1992).
AT	4	Kaplan, M.H. et al., "Identification of a G Protein Coupled Receptor Induced in Activated T Cells," <i>J. Immunol.</i> 151:628-636, The American Association of Immunologists (1993).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>5</u>	Khan, A.S. et al., "Single pass sequencing and physical and genetic mapping of human brain cDNAs," <i>Nat. Genet.</i> 2:180-185, Nature America Incorporated (1992).
AS	<u>5</u>	Lee, N.H. and A.R. Kerlavage, "Molecular Biology of G-Protein-Coupled Receptors," <i>Drug News & Perspectives</i> 6:488-497, Prous Science (1993).
AT	<u>5</u>	Libert, F. et al., "Selective Amplification and Cloning of Four New Members of the G Protein-Coupled Receptor Family," <i>Science</i> 244:569-572, American Association for the Advancement of Science (1989).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	6	Lovenberg, T.W. et al., "A Novel Adenylyl Cyclase-Activating Serotonin Receptor (5-HT _{1E}) Implicated in the Regulation of Mammalian Circadian Rhythms," <i>Neuron</i> 11:449-458, Cell Press (1993).
AS	6	Lucchesi, B.R., "Myocardial Ischemia, Reperfusion and Free Radical Injury," <i>Am. J. Cardiol.</i> 65:141-231, Elsevier Science (1990).
AT	6	McAllister, G. et al., "Molecular cloning of a serotonin receptor from human brain (5HT _{1E}): A fifth 5HT ₁ -like subtype," <i>Proc. Natl. Acad. Sci. USA</i> 89:5517-5521, The National Academy of Sciences (1992).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	7	Mombaerts, P., "Seven-Transmembrane Proteins as Odorant and Chemosensory Receptors," <i>Science</i> 286:707-711, American Association for the Advancement of Science (October 1999).
AS	7	Montrucchio, G. et al., "Role of Platelet-Activating Factor in Cardiovascular Pathophysiology," <i>Physiol. Rev.</i> 80:1669-1699, The American Physiological Society (October 2000).
AT	7	Murphy, P.M., "The Molecular Biology of Leukocyte Chemoattractant Receptors," <i>Annu. Rev. Immunol.</i> 12:593-633, Annual Reviews Inc. (March 1994).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	8	Nef, P. et al., "Spatial pattern of receptor expression in the olfactory epithelium," <i>Proc. Natl. Acad. Sci. USA</i> 89:8948-8952, The National Academy of Sciences (1992).
AS	8	Oliveira, L. et al., "A common motif in G-protein-coupled seven transmembrane helix receptors," <i>J. Comput. Aided Mol. Des.</i> 7:649-658, ESCOM Science Publishers B.V. (1993).
AT	8	Peralta, E.G. et al., "Distinct primary structures, ligand-binding properties and tissue-specific expression of four human muscarinic acetylcholine receptors," <i>EMBO J.</i> 6:3923-3929, IRL Press Limited (1987).

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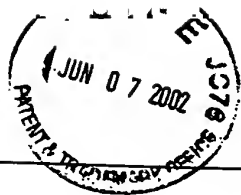
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	9	Probst, W.C. et al., "Sequence Alignment of the G-Protein Coupled Receptor Superfamily," <i>DNA & Cell Biol.</i> 11:1-20, Mary Ann Liebert, Inc. (1992).
AS	9	Raming, K. et al., "Cloning and expression of odorant receptors," <i>Nature</i> 361:353-356, MacMillan Magazines Limited (1993).
AT	9	Ressler, K.J. et al., "A Zonal Organization of Odorant Receptor Gene Expression in the Olfactory Epithelium," <i>Cell</i> 73:597-609, Cell Press (1993).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>10</u>	Rohrer, L. et al., "Cloning and characterization of a fourth human somatostatin receptor," <i>Proc. Natl. Acad. Sci. USA</i> 90:4196-4200, The National Academy of Sciences (1993).
AS	<u>10</u>	Ross, P.C. et al., "RTA, a candidate G protein-coupled receptor: Cloning, sequencing, and tissue distribution," <i>Proc. Natl. Acad. Sci. USA</i> 87:3052-3056, The National Academy of Sciences (1990).
AT	<u>10</u>	Rouquier, S. et al., "Distribution of olfactory receptor genes in the human genome," <i>Nature Genet.</i> 18:243-250, Nature America Inc. (March 1998).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	11	Sambrook, J. et al., "Expression of Cloned Genes in Cultured Mammalian Cells," in <i>Molecular Cloning</i> , Vol. 3, Sambrook, J. et al., Eds, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 16.2-16.21 (1989).
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AT	11	Simon, J. et al., "Characterisation of a recombinant P _{2Y} purinoceptor," <i>Eur. J. Pharmacol.</i> 291:281-289, Elsevier Science B.V. (November 1995).

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INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
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AR	12	Skolnick, J. and J.S. Fetrow, "From genes to protein structure and function: novel applications of computational approaches in the genome era," <i>Trends Biotech.</i> 18:34-39, Elsevier Science Limited (January 2000).
AS	12	Toguchida, J. et al., "Complete Genomic Sequence of the Human Retinoblastoma Susceptibility Gene," <i>Genomics</i> 17:535-543, Academic Press, Inc. (1993).
AT	12	Tokuyama, Y. et al., "Cloning of Rat and Mouse P _{2U} Purinoceptors," <i>Biochem. Biophys. Res. Commun.</i> 211:211-218, Academic Press, Inc. (June 1995).

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	AR	13	Watson, S. and S. Arkinstall, "Superfamily of Seven Transmembrane Proteins," and "Orphan receptors," in <i>The G-Protein Linked Receptor FactsBook</i> , Watson, S. and Arkinstall, S., Eds., Academic Press Inc., San Diego, CA, pp. 1-6, 223-230 (1994).
	AS	13	Webb, T.E. et al., "Cloning and functional expression of a brain G-protein-coupled ATP receptor," <i>FEBS Lett.</i> 324:219-225, Elsevier Science Publishers B.V. (1993).
	AT	13	Young, D. et al., "Characterization of the rat <i>mas</i> oncogene and its high-level expression in the hippocampus and cerebral cortex of rat brain," <i>Proc. Natl. Acad. Sci. USA</i> 85:5339-5342, The National Academy of Sciences (1988).

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AR	<u>14</u>	NCBI Entrez, GenBank, Accession No. L14566, Ressler, K.J. <i>et al.</i> (February 1994).
AS	<u>14</u>	NCBI Entrez, GenBank Report, Accession No. D40713, Sasaki, T. (November 1994).
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	15	NCBI Entrez, GenBank Report, Accession No. R75681, Hillier, L. et al. (June 1995).
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AS	<u>16</u>	NCBI Entrez, GenBank Report, Accession No. T72656, Hillier, L. et al. (March 1995).
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AR	18	NCBI Entrez, GenBank Report, Accession No. D22698, Sasaki, T. and Y. Minobe (April 2002).
AS	18	NCBI Entrez, GenBank Report, Accession No. D22621, Sasaki, T. and Y. Minobe (April 2002).
AT	18	PCT International Search Report for WO 94/12635, October 1994.

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AR	19	Supplementary Partial European Search Report for EP 95 91 5505, mailed May 11, 1999.
AS	19	U.S. Patent Application Serial No. 09/912,292, Rosen et al., NOT PUBLISHED, pages 1-75 (pages 1 & 2 partially redacted); portion of Table 2; and SEQ ID NOS: 18045, 23923, 29004, 29215, and 46980.
AT		

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